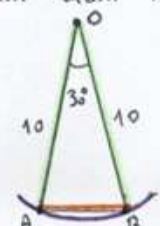
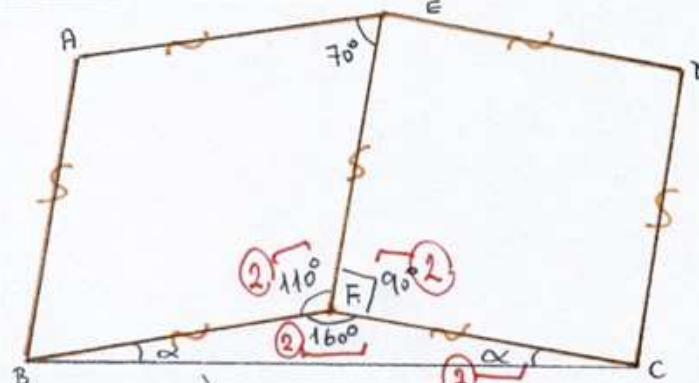
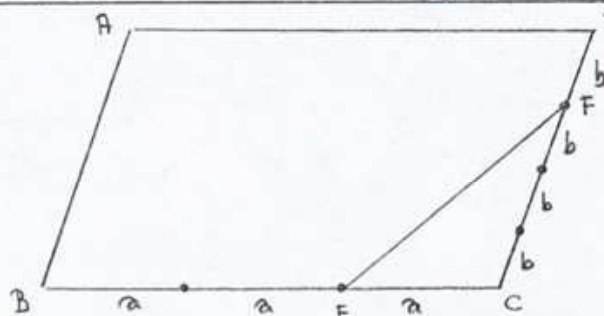
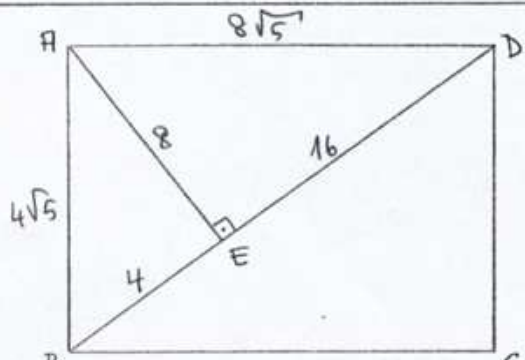
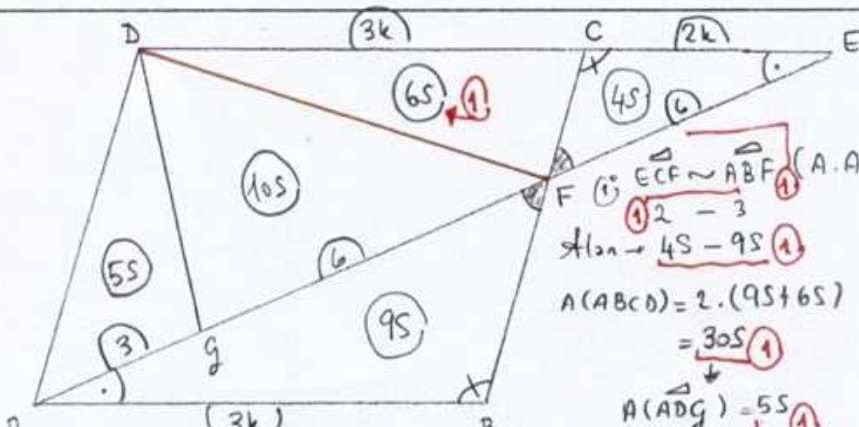
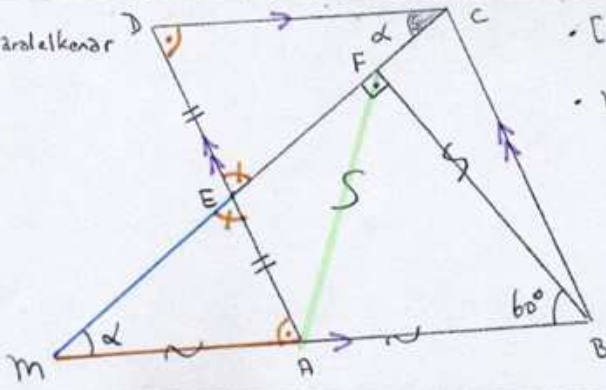


Sınıf	ARNAVUTKÖY KORKMAZ YİĞİT ANADOLU LİSESİ	
Ad Soyad	2009-2010 EĞİTİM VE ÖĞRETİM YILI	
No	11. Sınıf I. Dönem II. Geometri II Yazılısı	
1 10 puan	<p>Çevrel çemberinin yarıçapı 10br olan bütgen üçgenin alanı kaç br²'dir?</p> <p>$\frac{360^\circ}{12} = 30^\circ$ (3)</p> 	<p>Alan = $12 \cdot A(\widehat{OAB})$ (2)</p> <p>$= 12 \cdot \frac{1}{2} \cdot 10 \cdot 10 \cdot \sin 30^\circ$ (3)</p> <p>$= 12 \cdot \frac{1}{2} \cdot 100 \cdot \frac{1}{2}$</p> <p>$= 300$ (2)</p>
2 10 puan		<p>ABFE eskenar dörtgen</p> <p>DEFC kare</p> <p>$m(\widehat{AEF}) = 70^\circ \rightarrow m(\widehat{FBC}) = ?$</p> <p>$m(\widehat{FBC}) = m(\widehat{FCB}) = 10^\circ$ (2)</p>
3 10 puan		<p>ABCD paralelkenar</p> <p>[BC] : 3 eşit parçaya bölünmüştür.</p> <p>[CD] : 4 eşit</p> <p>$\rightarrow A(\widehat{ECF}) / A(ABCD) = ?$</p> <p>$\frac{2 \cdot 3a \cdot 4a}{2 \cdot 3a \cdot 4a} = \frac{3ab}{24ab} = \frac{1}{8}$ (3)</p>
4 10 puan		<p>ABCD dikdörtgen</p> <p>$BE = 8, ED = 16$</p> <p>Çevre (ABCD) = ?</p> <p>$AB = 4\sqrt{5}$ (2)</p> <p>$AD = 8\sqrt{5}$ (2)</p> <p>$AE ^2 = 4 \cdot 16$ (ABD'de Euclid Teo.) (2)</p> <p>$AE = 8$ (2)</p> <p>Çevre = $4\sqrt{5} + 8\sqrt{5} + 4\sqrt{5} + 8\sqrt{5}$</p> <p>$= 24\sqrt{5}$ (2)</p>
5 10 puan		<p>ABCD paralelkenar</p> <p>$3 EC = 2 AB \wedge GF = 6$</p> <p>$\frac{A(\widehat{ADG})}{A(ABCD)} = \frac{1}{6} \rightarrow AE = ?$</p> <p>$A(\widehat{ADF}) = 155 \rightarrow A(\widehat{DGF}) = 105$ (1)</p> <p>$\rightarrow AG = 3 \wedge FE = 6$ (1)</p> <p>$AE = 3 + 6 + 6 = 15$ (1)</p> <p>$\widehat{ECF} \sim \widehat{ABF}$ (A.A.) (1)</p> <p>$\frac{2}{3} = \frac{3}{45}$ (1)</p> <p>Alan $\rightarrow 45 - 95$ (1)</p> <p>$A(ABCD) = 2 \cdot (95 + 65)$</p> <p>$= 305$ (1)</p> <p>\downarrow</p> <p>$A(\widehat{ADG}) = 55$ (1)</p>

6

10 puan

ABCD paralelkenar
 $\alpha = ?$



$$\cdot [BA] \cap [CE] = \{M\} \quad (2)$$

$$\cdot \triangle MAE \cong \triangle CDE \text{ (A.K.A.)} \quad (2) + (1)$$

$$[FA] \text{ ızılır. } |FA| = |MA| = |AB| \quad (3)$$

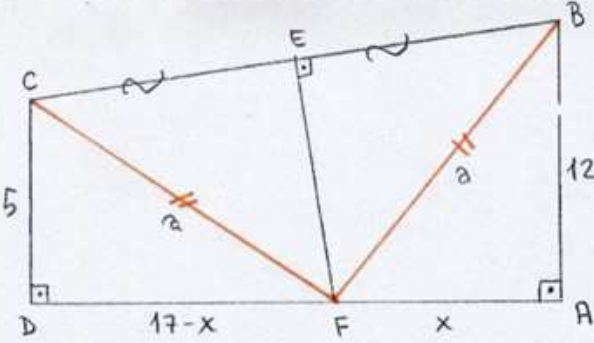
$\triangle MAB$ eşkenar olur.

$$\text{Veya } \triangle MB \text{ dik } \wedge |MB| = 2|FB|$$

$$\alpha = 30^\circ \quad (2)$$

7

10 puan



$$|AB| = 12$$

$$|DC| = 5$$

$$|AD| = 17$$

$$\downarrow$$

$$|AF| = ?$$

$$[CF] \text{ ve } [FB] \text{ ızılır.} \quad (3)$$

$$\triangle CFB \text{ ızkenar olur. } (|CF| = |FB|) \quad (3)$$

$$5^2 + (17-x)^2 = a^2 = x^2 + 12^2 \quad (2)$$

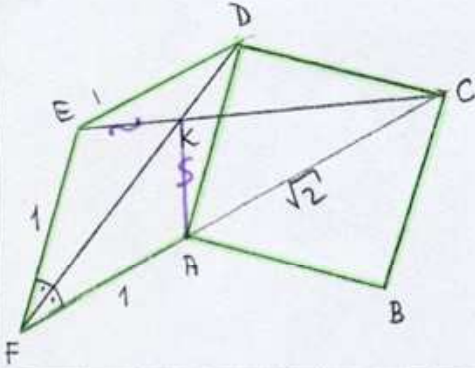
$$25 + 289 - 34x + x^2 = x^2 + 144$$

$$-34x = -170$$

$$x = 5 \quad (2)$$

8

10 puan



• ABCD kare

• DEFA eşkenar dörtgen

$$|KA| = m \cdot |KC| \rightarrow m = ?$$

$$|KA| = \frac{1}{\sqrt{2}+1} \cdot |KC|$$

$$m = \frac{1}{\sqrt{2}+1}$$

$$\cdot |KA| = |KE| \quad (*) \quad (3)$$

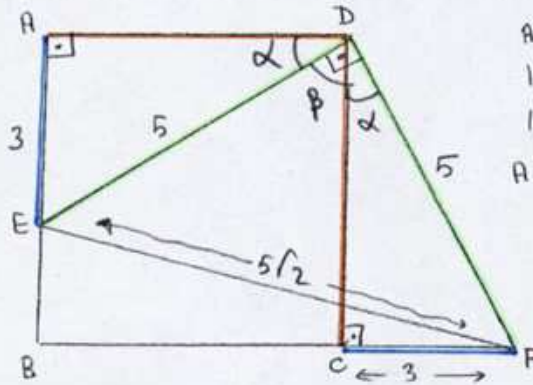
$$\cdot \triangle FEC \text{ 'de ızkenarlıy } \angle \text{es.} \quad (4)$$

$$\frac{1}{|KE|} = \frac{1+\sqrt{2}}{|KC|}$$

$$m = \frac{1}{\sqrt{2}+1} = \frac{\sqrt{2}-1}{2-1} = \sqrt{2}-1 \quad (1)$$

9

10 puan



ABCD kare

$$|CF| = 3$$

$$|EF| = 5\sqrt{2}$$

$$A(ABCD) = ?$$

$$\triangle FDC \cong \triangle EDA \text{ (A.K.A.)} \quad (2) + (1)$$

$$\rightarrow |CF| = |AE| = 3 \quad (2)$$

$$\rightarrow |DF| = |ED| \rightarrow |DF| = |ED| = 5 \quad (2)$$

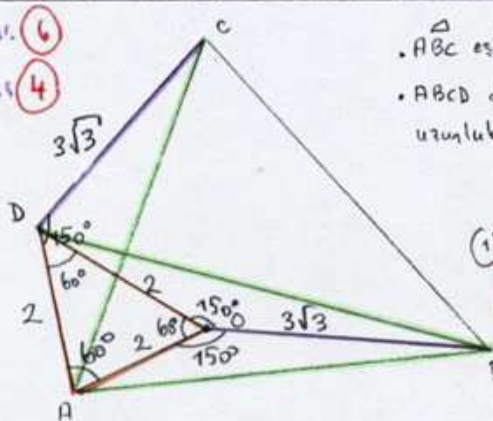
$$\rightarrow |AD| = 4 \quad (2)$$

$$A(ABCD) = 4^2 = 16 \quad (1)$$

10

10 puan

Yorumu: (6)
 Sonucu: (4)



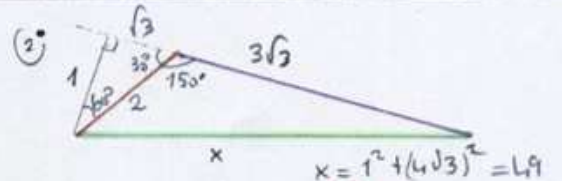
• ABC eşkenar

• ABCD dörtgeninin köşegen uzunlukları toplamını bulun.

$$① \cdot R_{A-60^\circ}(\triangle ADC) = \triangle AOB \quad (2)$$

$$② \cdot m(\widehat{DAO}) = 60^\circ \rightarrow \triangle DAO \text{ eşkenar}$$

$$③ \cdot m(\widehat{DOB}) = 150^\circ \rightarrow |DB| = |BA|$$



$$x = 1^2 + (4\sqrt{3})^2 = 49$$

$$② \cdot x = 7$$

$$= |AC| + |DB|$$

$$= 7 + 7 = 14 \quad (2)$$